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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks
(ROSPATENT) added to list of core patent offices covered
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADO
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 12 MAR 22 PATDPASPC - New patent database available
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new
fields
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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=> s Collagen and (type I)
L1 72025 COLLAGEN AND (TYPE I)

=> s l1 and (extracellular matrix)
L2 19330 L1 AND (EXTRACELLULAR MATRIX)

=> s l2 and BMP
L3 1268 L2 AND BMP

=> s L3 and (BMP 4)
L4 547 L3 AND (BMP 4)

=> s l4 and chondrogene?
L5 64 L4 AND CHONDROGENE?

=> s l5 and chondrocyte#
L6 56 L5 AND CHONDROCYTE#

=> s l6 and (type II)
L7 48 L6 AND (TYPE II)

=> s l7 and (implant? or (drug delivery))
UNMATCHED LEFT PARENTHESIS 'AND (IMPLANT?'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s l7 and (implant? or (drug delivery))
1 FILES SEARCHED...
L8 47 L7 AND (IMPLANT? OR (DRUG DELIVERY))

=> s l8 and (lyophiliz? or (freeze dr?))
<-----User Break----->

SEARCH ENDED BY USER

=> s l8 and (lyophiliz? or (freeze (dry? or dri?)))
MISSING OPERATOR 'FREEZE (DRY?'
The search profile that was entered contains terms or

nested terms that are not separated by a logical operator.

=> s l8 and (lyophiliz? or (freeze(w)(dry? or dri?)))
L9 28 L8 AND (LYOPHILIZ? OR (FREEZE(W)(DRY? OR DRI?)))

=> d l9 1-28 ibib abs

L9 ANSWER 1 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2005:51011 USPATFULL

TITLE: Acellular matrix **implants** for treatment of
articular cartilage, bone or osteochondral defects and
injuries and method for use thereof

INVENTOR(S): Kusanagi, Akihiko, Brookline, MA, UNITED STATES
Tarrant, Laurence J. B., Northampton, MA, UNITED STATES
Schmidt, Mary Beth, Pomfret Center, CT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005043813	A1	20050224
APPLICATION INFO.:	US 2004-882581	A1	20040630 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-496971P	20030820 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Hana Verny, Peters, Verny, Jones & Schmitt LLP, Suite 6, 385 Sherman Avenue, Palo Alto, CA, 94306	
NUMBER OF CLAIMS:	37	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	12 Drawing Page(s)	
LINE COUNT:	2951	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An acellular matrix **implant** for treatment of defects and
injuries of articular cartilage, bone or osteochondral bone and a method
for treatment of injured, damaged, diseased or aged articular cartilage
or bone, using the acellular matrix **implant implanted**
into a joint cartilage lesion in situ and a bone-inducing composition
implanted into an osteochondral or bone defect. A method for
repair and restoration of the injured, damaged, diseased or aged
cartilage or bone into its full functionality by **implanting**
the acellular matrix **implant** between two layers of
biologically acceptable sealants and/or the bone-inducing composition
into the osteochondral bone or skeletal bone defect. A method for
fabrication of the acellular matrix **implant** of the invention.
A method for preparation of bone-inducing composition.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2005:23321 USPATFULL

TITLE: Cartilage and bone repair and regeneration using
postpartum-derived cells

INVENTOR(S): Kihm, Anthony J., Princeton, NJ, UNITED STATES
Seyda, Agnieszka, New Brunswick, NJ, UNITED STATES
Dhanaraj, Sridevi, Raritan, NJ, UNITED STATES
Wang, Ziwei, Monroe, NJ, UNITED STATES
Harmon, Alexander M., Clinton, NJ, UNITED STATES
Harris, Ian Ross, Belle Mead, NJ, UNITED STATES
Messina, Darin J., Somerville, NJ, UNITED STATES
Mistry, Sanjay, Bedminster, NJ, UNITED STATES
Gosiewska, Anna, Skillman, NJ, UNITED STATES
Yi, Chin-Feng, Hillsborough, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005019865	A1	20050127
APPLICATION INFO.:	US 2004-876998	A1	20040625 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-483264P	20030627 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, 1650 MARKET STREET, PHILADELPHIA, PA, 19103	
NUMBER OF CLAIMS:	108	
EXEMPLARY CLAIM:	1	
LINE COUNT:	6210	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Cells derived from postpartum tissue and methods for their isolation and induction to differentiate to cells of a chondrogenic or osteogenic phenotype are provided by the invention. The invention further provides cultures and compositions of the postpartum-derived cells and products related thereto. The postpartum-derived cells of the invention and products related thereto have a plethora of uses, including but not limited to research, diagnostic, and therapeutic applications, for example, in the treatment of bone and cartilage conditions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2004:321031 USPATFULL

TITLE: 47 human secreted proteins

INVENTOR(S): Ruben, Steven M., Brookeville, MD, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Endress, Gregory A., Florence, MA, UNITED STATES
Soppet, Daniel R., Centreville, VA, UNITED STATES
Ni, Jian, Germantown, MD, UNITED STATES
Duan, Roxanne D., Gaithersburg, MD, UNITED STATES
Moore, Paul A., North Bethesda, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
Florence, Kimberly A., Rockville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004253684	A1	20041216
APPLICATION INFO.:	US 2004-885039	A1	20040707 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-895298, filed on 2 Jul 2001, PENDING Continuation of Ser. No. US 2000-591316, filed on 9 Jun 2000, ABANDONED Continuation-in-part of Ser. No. WO 1999-US29950, filed on 16 Dec 1999, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-113006P	19981218 (60)
	US 1998-112809P	19981217 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT., 14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850	

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 18530

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2004:292269 USPATFULL

TITLE: Process for ex vivo formation of mammalian bone and uses thereof

INVENTOR(S): Kale, Sujata, Boston, MA, UNITED STATES

Long, Michael W., Northville, MI, UNITED STATES

PATENT ASSIGNEE(S): The Regents of the University of Michigan (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004229353	A1	20041118
APPLICATION INFO.:	US 2004-862997	A1	20040608 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-753043, filed on 27 Dec 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-173350P	19991228 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Steven L. Highlander, Esq., FULBRIGHT & JAWORSKI L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX, 78701	

NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Page(s)
LINE COUNT: 3031

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention concerns methods for the ex vivo formation of mammalian bone and subsequent uses of the bone. A critical and distinguishing feature of the present invention are defined tissue culture conditions and factors resulting in the formation of bone cell spheroids. The invention also provides for methods of **implanting** into subjects the ex vivo formed bone. Also described are methods for genetically altering the bone cell spheroids to affect bone formation, identification of candidate modulators of bone formation, and identification of genes involved in bone formation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2004:287205 USPATFULL

TITLE: Process for ex vivo formation of mammalian bone and uses thereof

INVENTOR(S): Kale, Sujata, Boston, MA, UNITED STATES

Long, Michael W., Northville, MI, UNITED STATES

PATENT ASSIGNEE(S): The Regents of the University of Michigan (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004225374	A1	20041111
APPLICATION INFO.:	US 2004-862972	A1	20040608 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-753043, filed on 27 Dec 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-173350P	19991228 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Steven L. Highlander, Esq., FULBRIGHT & JAWORSKI L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX, 78701	
NUMBER OF CLAIMS:	38	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Page(s)	
LINE COUNT:	3027	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention concerns methods for the ex vivo formation of mammalian bone and subsequent uses of the bone. A critical and distinguishing feature of the present invention are defined tissue culture conditions and factors resulting in the formation of bone cell spheroids. The invention also provides for methods of **implanting** into subjects the ex vivo formed bone. Also described are methods for genetically altering the bone cell spheroids to affect bone formation, identification of candidate modulators of bone formation, and identification of genes involved in bone formation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2004:227901 USPATFULL

TITLE: **Bmp** binding proteins for use in bone or cartilage regeneration

INVENTOR(S): Harrison, Andrew James, Huntington, UNITED KINGDOM
Scully, Andrea Jane, Leeds, UNITED KINGDOM
Mustill, Wendy Jane, Cambridge, UNITED KINGDOM
Thomson, Brian Mark, York, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004176287	A1	20040909
APPLICATION INFO.:	US 2004-479747	A1	20040504 (10)
	WO 2002-GB2427		20020610

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2001-13606	20010608
	GB 2002-437	20020110
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STITES & HARBISON PLLC, 1199 NORTH FAIRFAX STREET, SUITE 900, ALEXANDRIA, VA, 22314	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	23 Drawing Page(s)	
LINE COUNT:	2641	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A medicament or device for tissue regeneration, for example bone and/or cartilage tissue, in which the medicament or device comprises a

BMP binding protein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2004:95921 USPATFULL

TITLE: Methods and compositions for regulating bone and cartilage formation

INVENTOR(S): Pittman, Debra D., Windham, NH, UNITED STATES
Clancy, Brian M., Ashland, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004073377	A1	20040415
APPLICATION INFO.:	US 2002-329056	A1	20021223 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2002-125691, filed on 18 Apr 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-284786P	20010418 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FITZPATRICK CELLA HARPER & SCINTO, 30 ROCKEFELLER PLAZA, NEW YORK, NY, 10112	
NUMBER OF CLAIMS:	65	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	12882	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for diagnostic assays for detecting bone and cartilage formation and therapeutic methods and compositions for treating disease and disorders related to bone and cartilage formation or resorption, such as osteoporosis and bone fractions. The invention also provides therapeutic methods for diseases related to bone or cartilage formation or resorption. Methods for identifying therapeutics for such diseases are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2004:45202 USPATFULL

TITLE: 98 human secreted proteins

INVENTOR(S): Komatsoulis, George A., Silver Spring, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Brookeville, MD, UNITED STATES
Duan, D. Roxanne, Bethesda, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Wei, Ying-Fei, Berkeley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004034196	A1	20040219
APPLICATION INFO.:	US 2003-351334	A1	20030127 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-489847, filed on 24 Jan 2000, GRANTED, Pat. No. US 6476195 Continuation-in-part of Ser. No. WO 1999-US17130, filed on 29 Jul 1999, PENDING		

NUMBER	DATE
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PRIORITY INFORMATION: US 2002-350898P 20020125 (60)
US 1998-94657P 19980730 (60)
US 1998-95486P 19980805 (60)
US 1998-96319P 19980812 (60)
US 1998-95454P 19980806 (60)
US 1998-95455P 19980806 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,
ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 24589

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2004:44499 USPATFULL
TITLE: Proteins and nucleic acids encoding same
INVENTOR(S): Alsobrook, John P., II, Madison, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Colman, Steven D., Guilford, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Guo, Xiaojia Sasha, Branford, CT, UNITED STATES
Herrmann, John L., Guilford, CT, UNITED STATES
Kekuda, Ramesh, Danbury, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Millet, Isabelle, Milford, CT, UNITED STATES
Pena, Carol E. A., New Haven, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Rieger, Daniel K., Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Smithson, Glennnda, Guilford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Voss, Edward Z., Wallingford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Zhong, Haihong, Guilford, CT, UNITED STATES
Zhong, Mei, Branford, CT, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION:	US 2004033491	A1	20040219
APPLICATION INFO.:	US 2001-16248	A1	20011210 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-254329P	20001208 (60)
	US 2001-291037P	20010515 (60)
	US 2000-255648P	20001214 (60)
	US 2001-297173P	20010608 (60)
	US 2001-309258P	20010731 (60)
	US 2001-326393P	20011001 (60)
	US 2001-315639P	20010829 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Ivor R. Elrifi, MINTZ, LEVIN, COHN, FERRIS,, GLOVSKY and POPEO, P.C., One Financial Center, Boston, MA, 02111

NUMBER OF CLAIMS: 49
EXEMPLARY CLAIM: 1
LINE COUNT: 12259

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:250472 USPATFULL
TITLE: Cartilage regeneration using **chondrocyte** and TGF-beta

INVENTOR(S): Song, Sun Uk, Inchon, KOREA, REPUBLIC OF
Yi, Youngsuk, Gaithersburg, MD, UNITED STATES
Lee, Kwan Hee, Gaithersburg, MD, UNITED STATES
Noh, Moon Jong, Gaithersburg, MD, UNITED STATES
Lee, Dug Keun, Gaithersburg, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175257	A1	20030918
APPLICATION INFO.:	US 2003-387671	A1	20030312 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-363764P	20020312 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	JHK Law, P.O. Box 1078, La Canada, CA, 91012-1078	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	15 Drawing Page(s)	
LINE COUNT:	1534	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present application is directed to a method of treating osteoarthritis, which includes obtaining a member of a transforming growth factor superfamily of proteins; obtaining a population of cultured connective tissue cells that may contain vector encoding a

gene, or a population of cultured connective tissue cells that do not contain any vector encoding a gene; and then transferring the protein and the connective tissue cells into an arthritic joint space of a mammalian host, such that the activity of the combination within the joint space results in regenerating connective tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:127047 USPATFULL

TITLE: Methods and compositions for regulating bone and cartilage formation

INVENTOR(S): Clancy, Brian M., Ashland, MA, UNITED STATES
Pittman, Debra D., Windham, NH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003087259	A1	20030508
APPLICATION INFO.:	US 2002-125691	A1	20020418 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-284786P	20010418 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY HOAG LLP, PATENT GROUP, WORLD TRADE CENTER WEST, 155 SEAPORT BOULEVARD, BOSTON, MA, 02110-2600	
NUMBER OF CLAIMS:	57	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	12451	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for diagnostic assays for detecting bone and cartilage formation and therapeutic methods and compositions for treating disease and disorders related to bone and cartilage formation or resorption, such as osteoporosis and bone fractions. The invention also provides therapeutic methods for diseases related to bone or cartilage formation or resorption. Methods for identifying therapeutics for such diseases are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:113664 USPATFULL

TITLE: 47 human secreted proteins

INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Endress, Gregory A., Silver Spring, MD, UNITED STATES
Soppet, Daniel R., Centreville, VA, UNITED STATES
Ni, Jian, Rockville, MD, UNITED STATES
Duan, Roxanne D., Bethesda, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
Florence, Kimberly A., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003078405	A1	20030424
APPLICATION INFO.:	US 2001-895298	A1	20010702 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-591316, filed on 9 Jun		

2000, PENDING Continuation-in-part of Ser. No. WO
1999-US29950, filed on 16 Dec 1999, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-113006P	19981218 (60)
	US 1998-112809P	19981217 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
LINE COUNT:	18444	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2003:40570 USPATFULL
TITLE: Osf2/Cbfa1 nucleic acids and methods of use therefor
INVENTOR(S): Ducky, Patricia, Houston, TX, United States
Karsenty, Gerard, Houston, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6518063	B1	20030211
APPLICATION INFO.:	US 1998-86663		19980529 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-80189P	19980324 (60)
	US 1997-48430P	19970529 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Nguyen, Dave T.	
ASSISTANT EXAMINER:	Shukla, Ram R.	
LEGAL REPRESENTATIVE:	Fulbright & Jaworski, LLP	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	54 Drawing Figure(s); 37 Drawing Page(s)	
LINE COUNT:	8933	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are methods and compositions comprising a novel osteoblast-specific transcription factor designated Osf2/Cbfa1. Also disclosed are nucleic acid segments encoding this polypeptide derived from human cell lines, and the use of these polynucleotides in a variety of diagnostic and therapeutic applications. Methods, compositions, kits, and devices are also provided for identifying compounds which are inhibitors of osteoblast differentiation, and identifying Osf2/Cbfa1 polynucleotides and polypeptides in a sample. Also disclosed are nucleic acid compositions comprising an Osf2 promoter, and the use of the promoter in heterologous and homologous gene transcription and protein production.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:33183 USPATFULL

TITLE: Device and method for regeneration and repair of cartilage lesions

INVENTOR(S): Atkinson, Brent, Lakewood, CO, United States
Benedict, James J., Arvada, CO, United States

PATENT ASSIGNEE(S): Sulzer Biologics Inc., Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6514514	B1	20030204
APPLICATION INFO.:	US 1999-250370		19990216 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1998-EP5100, filed on 12 Aug 1998		

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1997-810567	19970814
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Baker, Anne-Marie	
LEGAL REPRESENTATIVE:	Sheridan Ross P.C.	
NUMBER OF CLAIMS:	58	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 8 Drawing Page(s)	
LINE COUNT:	2122	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a cartilage repair product that induces both cell ingrowth into a bioresorbable material and cell differentiation into cartilage tissue. Such a product is useful for regenerating and/or repairing both vascular and avascular cartilage lesions, particularly articular cartilage lesions, and even more particularly mensical tissue lesions, including tears as well as segmental defects. Also disclosed is a method of regenerating and repairing cartilage lesions using such a product.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2003:26341 USPATFULL

TITLE: Compositions for regeneration and repair of cartilage lesions

INVENTOR(S): Atkinson, Brent, Lakewood, CO, United States
Benedict, James J., Arvada, CO, United States

PATENT ASSIGNEE(S): Sulzer Biologics, Inc., Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6511958	B1	20030128
APPLICATION INFO.:	US 2000-505209		20000216 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-250370, filed on 16 Feb 1999 Continuation-in-part of Ser. No. WO 1998-EP5100, filed on 12 Aug 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Baker, Anne-Marie		
LEGAL REPRESENTATIVE:	Sheridan Ross P.C.		
NUMBER OF CLAIMS:	41		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 3437

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a cartilage repair product that induces both cell ingrowth into a bioresorbable material and cell differentiation into cartilage tissue. Such a product is useful for regenerating and/or repairing both vascular and avascular cartilage lesions, particularly articular cartilage lesions, and even more particularly mensical tissue lesions, including tears as well as segmental defects. Also disclosed is a method of regenerating and repairing cartilage lesions using such a product.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2002:337973 USPATFULL

TITLE: In vivo gene transfer methods for wound healing

INVENTOR(S): Goldstein, Steven A., Ann Arbor, MI, UNITED STATES
Bonadio, Jeffrey, Ann Arbor, MI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002193338	A1	20021219
APPLICATION INFO.:	US 2002-177680	A1	20020620 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-344581, filed on 25 Jun 1999, ABANDONED Continuation-in-part of Ser. No. WO 1995-US2251, filed on 21 Feb 1995, PENDING Continuation-in-part of Ser. No. US 1994-316650, filed on 30 Sep 1994, GRANTED, Pat. No. US 5942496 Continuation-in-part of Ser. No. US 1994-199780, filed on 18 Feb 1994, GRANTED, Pat. No. US 5763416		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Pennie & Edmonds, LLP, 3300 Hillview Avenue, Palo Alto, CA, 94304		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	2072		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to an in vivo method for specific targeting and transfer of DNA into mammalian repair cells. The transferred DNA may include any DNA encoding a therapeutic protein of interest. The invention is based on the discovery that mammalian repair cells proliferate and migrate into a wound site where they actively take up and express DNA. The invention further relates to pharmaceutical compositions that may be used in the practice of the invention to transfer the DNA of interest. Such compositions include any suitable matrix in combination with the DNA of interest.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 17 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2002:301577 USPATFULL

TITLE: Chondrogenic potential of human bone marrow-derived CD105+ cells by BMP

INVENTOR(S): Majumdar, Manas Kumar, Burlington, MA, UNITED STATES
Morris, Elisabeth Ann, Sherborn, MA, UNITED STATES

PATENT ASSIGNEE(S): Wyeth, Madison, NJ, UNITED STATES, 07054-0874 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002169122	A1	20021114

APPLICATION INFO.: US 2002-78808 A1 20020219 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-271186P	20010223 (60)
	US 2001-333975P	20011129 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	American Home Products Corporation, 5 Giralda Farms, Madison, NJ, 07940-0874	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Page(s)	
LINE COUNT:	1174	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

AB Compositions of BMPs useful for cartilage repair and methods employing these compositions are disclosed. Compositions comprising non-tissue culture expanded cells isolated from bone marrow and treated with BMPs useful for cartilage repair and methods employing these compositions are also disclosed. The compositions are useful in the treatment of osteoarthritis, cartilage defects and in related tissue repair.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 18 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2002:291062 USPATFULL
TITLE: Secreted protein HNFGB20
INVENTOR(S): Komatsoulis, George, Silver Spring, MD, United States
Rosen, Craig A., Laytonsville, MD, United States
Ruben, Steven M., Olney, MD, United States
Duan, Roxanne D., Bethesda, MD, United States
Moore, Paul A., Germantown, MD, United States
Shi, Yanggu, Gaithersburg, MD, United States
LaFleur, David W., Washington, DC, United States
Wei, Ying-Fei, Berkeley, CA, United States
Ni, Jian, Rockville, MD, United States
Florence, Kimberly A., Rockville, MD, United States
Young, Paul, Gaithersburg, MD, United States
Brewer, Laurie A., St. Paul, MN, United States
Soppet, Daniel R., Centreville, VA, United States
Endress, Gregory A., Potomac, MD, United States
Ebner, Reinhard, Gaithersburg, MD, United States
Olsen, Henrik, Gaithersburg, MD, United States
Mucenski, Michael, Cincinnati, OH, United States
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6476195	B1	20021105
APPLICATION INFO.:	US 2000-489847		20000124 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1999-US17130, filed on 29 Jul 1999		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-94657P	19980730 (60)
	US 1998-95486P	19980805 (60)
	US 1998-96319P	19980812 (60)
	US 1998-95454P	19980806 (60)
	US 1998-95455P	19980806 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	

PRIMARY EXAMINER: Jones, W. Gary
ASSISTANT EXAMINER: Goldberg, Jeanine
LEGAL REPRESENTATIVE: Human Genome Sciences, Inc.
NUMBER OF CLAIMS: 36
EXEMPLARY CLAIM: 1,7
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 20107

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted protein (HNFGF20). Polypeptides of the invention are duseful in dianosis and treatment of disorders affecting the immune system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 19 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2002:235521 USPATFULL

TITLE: Process for ex vivo formation of mammalian bone and uses thereof

INVENTOR(S): Kale, Sujata, Boston, MA, UNITED STATES
Long, Michael W., Northville, MI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002127711	A1	20020912
	US 6811776	B2	20041102
APPLICATION INFO.:	US 2000-753043	A1	20001227 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Steven L. Highlander, Fulbright & Jaworski L.L.P.,, 600 Congress Avenue Suite 2400, Austin, TX, 78701		
NUMBER OF CLAIMS:	38		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Page(s)		
LINE COUNT:	3032		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention concerns methods for the ex vivo formation of mammalian bone and subsequent uses of the bone. A critical and distinguishing feature of the present invention are defined tissue culture conditions and factors resulting in the formation of bone cell spheroids. The invention also provides for methods of **implanting** into subjects the ex vivo formed bone. Also described are methods for genetically altering the bone cell spheroids to affect bone formation, identification of candidate modulators of bone formation, and identification of genes involved in bone formation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 20 OF 28 USPATFULL on STN

ACCESSION NUMBER: 2002:199096 USPATFULL

TITLE: Method of inducing or enhancing **chondrogenesis** with **extracellular matrix** containing **BMP-4**

INVENTOR(S): Heidaran, Mohammad A., Los Gatos, CA, UNITED STATES
Daverman, Robin, San Jose, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002107205	A1	20020808
APPLICATION INFO.:	US 2001-805816	A1	20010313 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-197235P	20000414 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FISH & RICHARDSON PC, 2200 SAND HILL ROAD, SUITE 100,
MENLO PARK, CA, 94025
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 229

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method and composition are provided for inducing or enhancing
chondrogenesis in vivo or in vitro. The method is performed by
exposing the cells in vitro or in vivo to an **extracellular**
matrix comprising of **type I collagen**
, **type II collagen** or a mixture of
type I collagen or **type II**
collagen and hyaluronate and further containing **BMP-**
4 or a combination of **BMP-4** and GDF-5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 21 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2001:165613 USPATFULL
TITLE: Repair of larynx, trachea, and other fibrocartilaginous
tissues
INVENTOR(S): Vukicevic, Slobodan, Zagreb, Croatia
Katic, Vladimir, Zagreb, Croatia
Sampath, Kuber T., Holliston, MA, United States
PATENT ASSIGNEE(S): Creative BioMolecules, Inc. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001024823	A1	20010927
APPLICATION INFO.:	US 2001-828607	A1	20010406 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1999-US17222, filed on 30 Jul 1999, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-103161P	19981006 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & NEAVE, 1251 AVENUE OF THE AMERICAS, 50TH FLOOR, NEW YORK, NY, 10020-1105	
NUMBER OF CLAIMS:	56	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1859	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided herein are methods and devices for inducing the formation of
functional replacement nonarticular cartilage tissues and ligament
tissues. These methods and devices involve the use of osteogenic
proteins, and are useful in repairing defects in the larynx, trachea,
interarticular menisci, intervertebral discs, ear, nose, ribs and other
fibrocartilaginous tissues in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 22 OF 28 USPATFULL on STN
ACCESSION NUMBER: 2000:74106 USPATFULL
TITLE: Recombinant production of latent TGF-beta binding
protein-3 (LTBP-3)
INVENTOR(S): Bonadio, Jeffrey, Ann Arbor, MI, United States
Yin, Wushan, Ann Arbor, MI, United States
PATENT ASSIGNEE(S): The Regents of The University of Michigan, Ann Arbor,
MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6074840		20000613
APPLICATION INFO.:	US 1995-479722		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1995-US2251, filed on 21 Feb 1995 which is a continuation-in-part of Ser. No. US 1994-316650, filed on 30 Sep 1994, now patented, Pat. No. US 5942496 which is a continuation-in-part of Ser. No. US 1994-199780, filed on 18 Feb 1994, now patented, Pat. No. US 5763416		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fitzgerald, David L.		
LEGAL REPRESENTATIVE:	William, Morgan & Amerson		
NUMBER OF CLAIMS:	43		
EXEMPLARY CLAIM:	1,20		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	4758		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	Disclosed are novel nucleic acid and peptide compositions comprising latent TGF β binding proteins (LTBPs). Also disclosed are methods of using LTBP-2 and LTBP-3 peptides and the DNA segments which encode them.		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 23 OF 28 USPATFULL on STN

ACCESSION NUMBER: 1999:121329 USPATFULL

TITLE: In vivo gene transfer methods for wound healing

INVENTOR(S): Goldstein, Steven A., Ann Arbor, MI, United States
Bonadio, Jeffrey, Ann Arbor, MI, United States

PATENT ASSIGNEE(S): The Regent of the University of Michigan, Ann Arbor, MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5962427		19991005
APPLICATION INFO.:	US 1996-631334		19960412 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1995-US2251, filed on 21 Feb 1995 which is a continuation-in-part of Ser. No. US 1994-316650, filed on 30 Sep 1994 which is a continuation-in-part of Ser. No. US 1994-199780, filed on 18 Feb 1994, now patented, Pat. No. US 5763416		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Campbell, Bruce R.		
ASSISTANT EXAMINER:	Nguyen, Dave Trong		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	2412		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	The present invention relates to an in vivo method for specific targeting and transfer of DNA into mammalian repair cells. The transferred DNA may include any DNA encoding a therapeutic protein of interest. The invention is based on the discovery that mammalian repair cells proliferate and migrate into a wound site where they actively take up and express DNA. The invention further relates to pharmaceutical compositions that may be used in the practice of the invention to transfer the DNA of interest. Such compositions include any suitable matrix in combination with the DNA of interest.		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 24 OF 28 USPATFULL on STN

ACCESSION NUMBER: 1999:99644 USPATFULL

TITLE: Methods and compositions for multiple gene transfer into bone cells

INVENTOR(S): Bonadio, Jeffrey, Ann Harbor, MI, United States
Goldstein, Steven A., Ann Harbor, MI, United States

PATENT ASSIGNEE(S): The Regent of The University of Michigan, Ann Arbor, MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5942496		19990824
APPLICATION INFO.:	US 1994-316650		19940930 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-199780, filed on 18 Feb 1994, now patented, Pat. No. US 5763416		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Campell, Bruce R.		
ASSISTANT EXAMINER:	Nguyen, Dave Trong		
LEGAL REPRESENTATIVE:	Arnold White & Durkee		
NUMBER OF CLAIMS:	130		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	5310		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are methods, compositions, kits and devices for use in transferring nucleic acids into bone cells in situ and/or for stimulating bone progenitor cells. **Type II collagen** and, particularly, osteotropic genes, are shown to stimulate bone progenitor cells and to promote bone growth, repair and regeneration in vivo. Gene transfer protocols are disclosed for use in transferring various nucleic acid materials into bone, as may be used in treating various bone-related diseases and defects including fractures, osteoporosis, osteogenesis imperfecta and in connection with bone **implants**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 25 OF 28 USPATFULL on STN

ACCESSION NUMBER: 1999:56457 USPATFULL

TITLE: Cartilage induction by bone morphogenetic proteins

INVENTOR(S): Hattersley, Gary, Cambridge, MA, United States
Wolfman, Neil M., Dover, MA, United States
Morris, Elisabeth A., Southboro, MA, United States
Rosen, Vicki A., Chestnut Hill, MA, United States

PATENT ASSIGNEE(S): Genetics Institute, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5902785		19990511
APPLICATION INFO.:	US 1996-646193		19960507 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-467110, filed on 6 Jun 1995, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kemmerer, Elizabeth		
LEGAL REPRESENTATIVE:	Lazar, Steven R., Gyure, Barbara A.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
LINE COUNT:	811		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions of proteins with cartilaginous tissue inducing and maintenance activity are disclosed. The compositions are useful in the treatment of osteoarthritis, cartilage defects and in related tissue repair.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 26 OF 28 USPATFULL on STN

ACCESSION NUMBER: 1998:65199 USPATFULL
TITLE: Gene transfer into bone cells and tissues
INVENTOR(S): Bonadio, Jeffrey, Ann Arbor, MI, United States
Goldstein, Steven A., Ann Arbor, MI, United States
PATENT ASSIGNEE(S): The Regent of the University of Michigan, Ann Arbor, MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5763416		19980609
APPLICATION INFO.:	US 1994-199780		19940218 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Ziska, Suzanne E.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	77		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	3487		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are methods, compositions and devices for use in transferring nucleic acids into bone cells in situ. The transfer of an osteotropic gene into bone progenitor cells is described, which event is shown to stimulate the progenitor cells and to promote bone growth, repair and regeneration in vivo. These gene transfer protocols are suitable for use in transferring various nucleic acid materials into bone, and have many uses, for example, in treating various bone-related diseases and defects, such as, in promoting fracture repair, use in connection with **implants**, and in treating osteoporosis and osteogenesis imperfecta.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 27 OF 28 EPFULL COPYRIGHT 2005 EPO/FIZ KA on STN

ACCESSION NUMBER: 2004:67756 EPFULL
ENTRY DATE PATENT: 20050302
ENTRY DATE PUBLICATION: 20050302
UPDATE DATE PUBLICAT.: 20050302
DATA UPDATE DATE: 20050302
DATA UPDATE WEEK: 200509
TITLE (ENGLISH): In vivo gene transfer methods for wound healing
TITLE (FRENCH): Transfert de genes in vivo pour le traitement des blessures
TITLE (GERMAN): In vivo Gentransfer zur Heilung von Wunden
INVENTOR(S): Goldstein, Steven A., 608 Green Road, Ann Arbor, Michigan 48105, US
PATENT APPLICANT(S): The Regents of The University of Michigan, (Regents of The University of Michigan, The; University of Michigan, The Regents of The; Michigan, The Regents of The University of), Technology Management Wolverine Tower Office Room 2071, 3003 South State Street, Ann Arbor, Michigan 48109-1280, US
PATENT APPL. NUMBER: 386659

AGENT: Andrae, Steffen, Dr., et al, Andrae Flach Haug
 Balanstrasse 55, 81541 Muenchen, DE

AGENT NUMBER: 48952

LANGUAGE OF FILING: English

LANGUAGE OF PUBL.: English

LANGUAGE OF PROCEDURE: English

LANGUAGE OF TITLE: German; English; French

DOCUMENT TYPE: Patent

PATENT INFO TYPE: EPat Application published with search report

PATENT INFORMATION:

	NUMBER	KIND	DATE
	EP 1510224	A1	20050302
DESIGNATED STATES:	AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE		
APPLICATION INFO.:	EP 2004-27225	A	19970411
RELATED DOC. INFO.:	EP 1997-922578		19971023
	EP 892644	Parent Application	
PRIORITY INFO.:	US 1996-631334	A	19960412

ABEN

The present invention relates to an in vivo method for specific targeting and transfer of DNA into mammalian repair cells. The transferred DNA may include any DNA encoding a therapeutic protein of interest. The invention is based on the discovery that mammalian repair cells proliferate and migrate into a wound site where they actively take up and express DNA. The invention further relates to pharmaceutical compositions that may be used in the practice of the invention to transfer the DNA of interest. Such compositions include any suitable matrix in combination with the DNA of interest.

L9 ANSWER 28 OF 28 EPFULL COPYRIGHT 2005 EPO/FIZ KA on STN

ACCESSION NUMBER: 1995:46152 EPFULL

DATA UPDATE DATE: 20040211

DATA UPDATE WEEK: 200407

TITLE (ENGLISH): METHODS AND COMPOSITIONS FOR STIMULATING BONE CELLS

TITLE (FRENCH): PROCEDES ET COMPOSITIONS PERMETTANT DE STIMULER DES CELLULES OSSEUSES

TITLE (GERMAN): Verfahren und Zusammensetzungen fuer die Stimulierung von Knochenzellen

INVENTOR(S): Bonadio, Jeffrey, 1870 Brian Ridge Drive, Ann Arbor, MI 48108, US; GOLDSTEIN, Steven, A, 3648 Frederick Drive, Ann Arbor, MI 48105, US

PATENT APPLICANT(S): The Regents of The University of Michigan, (Regents of The University of Michigan, The; University of Michigan, The Regents of The; Michigan, The Regents of The University of), Technology Management Wolverine Tower Office Room 2071, 3003 South State Street, Ann Arbor, Michigan 48109-1280, US

PATENT APPL. NUMBER: 386659

AGENT: Andrae, Steffen, Dr., et al, Andrae Flach Haug
 Balanstrasse 55, 81541 Muenchen, DE

AGENT NUMBER: 48951

LANGUAGE OF FILING: English

LANGUAGE OF PUBL.: English

LANGUAGE OF PROCEDURE: English

LANGUAGE OF TITLE: German; English; French

DOCUMENT TYPE: Patent

PATENT INFO TYPE: EPB1 Granted patent

PATENT INFORMATION:

	NUMBER	KIND	DATE
	NUMBER	KIND	DATE

EP 741785 B1 19991103

WO 9522611 19950824

DESIGNATED STATES: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

APPLICATION INFO.: EP 1995-912589 A 19950221

WO 1995-US2251 A 19950221

PRIORITY INFO.: US 1994-199780 A 19940218

US 1994-316650 A 19940930

CITED NON PATENT LIT.: TRENDS IN GENETICS, vol.8, no.3, pages 97 - 102 V.

ROSEN ET AL. 'The BMP proteins in bone formation and repair'

CITED PATENT LIT.: WO 9205199 A

WO 9305751 A

WO 9401139 A

DE 4219626 A